

## CLAIMS

What is claimed is:

1. A cosmetic or pharmaceutical oil-in-water emulsion which comprises at  
5 least one polyether siloxanes of the general formula (I)



where

10  $n = 50$  to  $250$

$R = -(CH_2)_m-O-(C_2H_4O)_x-(C_3H_6O)_yR^1$

$m = 2$  to  $4$

$x = 3$  to  $100$

$y = 0$  to  $50$

15  $R^1 = H, CH_3, \text{ or } CH_2CH_3,$

having a proportion by weight of the polyether radicals R of up to 45%, by  
weight, of the total molecular mass, calculated according to formula (II)

20 "proportion by weight" (in %) of the polyether radicals R of the total molecular  
mass =  $(MW_{\text{polyether radicals}}/MW_{\text{total}}) \bullet 100$  (II)

where

25  $MW_{\text{total}} = MW_{\text{silicone radical}} + MW_{\text{polyether radicals}}$

$MW_{\text{silicone radical}} = n \bullet 74.1 + 132.2$

$MW_{\text{polyether radicals}} = 2 \bullet (m \bullet 14 + 16 + x \bullet 44 + y \bullet 58 + z)$  where  $z = 1, 15$  or  $29$ .

2. The cosmetic or pharmaceutical oil-in-water of Claim 1 further comprising at least one optional coemulsifiers; liquid-crystalline-structure forming hydrophilic waxes; water-swellaable organopolymers; mixtures of a liquid-crystalline-structure forming hydrophilic waxes and water swellable organopolymers; cosmetic waxes; cosmetic oils; customary auxiliaries; or active ingredients.

3. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 1 further comprising polar waxes and a coemulsifier.

4. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 3 wherein said polar waxes are selected from the group consisting of stearyl alcohol, stearic acid, glyceryl stearate and mixtures thereof.

5. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 2, wherein the proportion of the polyether siloxane of the general formula (I), in the case of the presence of coemulsifiers is, based on the total amount of the emulsifiers, at least 50% by weight.

6. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 5 wherein the proportion of polyether siloxane is 65 to 95%, by weight.

7. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 2 wherein the proportion of the coemulsifier of the total amount of the emulsifiers is 5 to 49%, by weight.

8. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 7 wherein said portion is from 10 to 35%, by weight.

- 5 9. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 2 wherein the further auxiliaries and additives are selected from the group consisting of UV light protection filters, antioxidants, preservatives, insect repellents, self-tanning agents, perfume oils, dyes and active ingredients.

10. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 1 which is free from silicone-like oil components.

- 10 11. The cosmetic or pharmaceutical oil-in-water emulsion of Claim 1 which is free from chain-shaped or volatile cyclic polydimethylsiloxanes.

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